

CLIFFORD

World-Class Auto Security™

concept

50X

Owner's Manual

- **PLEASE NOTE:** Your factory-set 4-digit valet code is noted below. See pages 10-11 for information on using your valet code:

- If you wish to change your valet code to a different 4-digit number, please refer to the example on page 11. Write your new valet code in the space below:

WARNING: For security reasons, do not keep this manual in your vehicle (since a thief could possibly access it and learn of your secret valet code). As such, please keep this manual in a safe place in your home.

CLIFFORD

World-Class Auto Security™

Concept 50x is covered by one or more of the following Clifford Electronics U.S.A. patents: 4,158,874; 4,233,642; 4,327,444; 4,383,242; 4,430,685; 4,845,464; 4,887,064; 4,890,108; 4,922,224; 4,997,053; 5,081,667; 5,146,215; 5,157,375; 5,467,070; 5,650,744 and other patents pending.

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Standard Features of the Concept 50x

- ☑ ***Thatcham-Evaluated*** — The Concept 50x complies with the British Insurance Industry’s Criteria for Vehicle Security as evaluated by Thatcham, the Motor Insurance Repair Research Centre.
- ☑ ***Lifetime Warranty*** — For as long as you own the vehicle, Clifford will repair or replace the control unit and remote controls free of charge (see warranty card for full details).
- ☑ ***FACT — False Alarm Control and Test*** — One of many patented Clifford innovations, FACT ***absolutely, positively ends recurring false alarms.***
- ☑ ***A Pair of 4-Button/12-Channel Remote Controls*** — For fingertip command from a distance.
- ☑ ***Anti-CodeGrabbing (ACG) with Random Code Encryption***— Today’s criminals are shifting from code scanning to a new, much more efficient method of electronic thievery: “code-grabbing.” When you use a car alarm remote control, it transmits a digital code to your alarm. A thief with a code-grabber can record that code right off the air from hundreds of metres away, then play it back when you’re gone to disarm the alarm and unlock the doors. Within seconds, your car is just another theft statistic. Fortunately, Clifford’s Anti-CodeGrabbing (ACG) randomly changes the transmitted code every time you press any of the remote control buttons. And since these codes are selected by the system’s microprocessor from an electronic file containing several trillion codes, the remote control **NEVER** sends the same code twice, and the system control unit **NEVER** accepts the same code twice. That makes code-grabbing utterly useless against the Clifford Concept 50x.
- ☑ ***Built-In Two-Point AutoImmobiliser*** — For the utmost in theft prevention, two AutoImmobilisation circuits interrupt both the starter and ignition/fuel pump whilst the system is armed. Even if a thief were to pull the fuses or cut all the wires, the starter and ignition/fuel pump remain immobilised.
 - ***Failure-Proof Driving Safety***— Even in the unlikely event of a system malfunction, the AutoImmobiliser will not stop the engine whilst the vehicle is being driven.

Standard Features of the Concept 50x (cont.)

- ☑ ***UltraSecure Coded Valet Mode*** — Requires a code that you may select to put the system in valet mode or program in an additional remote. This ensures that no thief can turn off your Concept 50x as they can with other alarms.
 - ***Remote Controlled Valet Mode Entry and Exit***— With just a press of a button on your remote control, you can enter or exit valet mode. Indicator light flashes visually confirm valet mode entry and exit.

- ☑ ***Dual-Zone Proximity Sensor***— Two sensor zones provide full protection: If someone is lurking near your car, the system will sound a warning tone. But if a thief actually leans into the passenger compartment, the system will instantly blast the siren. It is impervious to wind and temperature variations that cause ultrasonic sensors to false alarm.

- ☑ ***Glass Tampering Sensor*** — Can detect attempts to break any of the vehicle's windows. An optional second microphone is available for larger vehicles, such as estate vehicles.

- ☑ ***Dual-Mode "Chirp" Silencing*** —Whenever you wish, you may press a button on the remote control to arm or disarm the system silently. It's perfect when parking at night in a quiet residential area. Or, if you prefer, you may turn off the chirps on a long-term basis until you wish to turn them back on.

- ☑ ***Remote Door Locking/Unlocking with Built-in Relays*** — *No more fumbling with keys in the dark or bad weather!* A single press of a button on the remote control simultaneously arms your system and locks the doors. Another press disarms and unlocks.
 - ***User-Selectable AutoLock***— Automatically locks the doors the instant you turn on the ignition to start the engine.
 - ***User-Selectable AutoUnLock***— Unlocks when you turn off the engine.

- ☑ ***Smart Self-Powered Siren with Unbreachable Digital ComLink*** — Continuous two-way digital communication between the system and the siren assures that if, at any time, the system fuse is pulled or any siren wire is cut, the siren will instantly activate for five minutes. Yet when the system is disarmed and power is interrupted, the siren will remain silent.
 - ***Automatic Low Battery Warning:*** If the siren's back-up battery voltage is low, the normal arm and disarm chirps will be muted to alert you of the problem. Once recharged, the chirps will automatically be restored.

Standard Features of the Concept 50x (cont.)

- ☑ ***Smart Remote Boot Release Capability*** — Assures that the optional remote boot release can be activated only if the system is in its disarmed state, thus avoiding the possibility of falsely triggering the system. This feature also ensures that the boot release cannot be remotely activated whilst driving.

- ☑ ***Remote Window/Sunroof Closure Capability*** — On certain vehicles (including several models of Mercedes Benz, Jaguar, Volkswagen, Audi and BMW), the integrated timer and an optional relay can be used to automatically close the power windows and sunroof every time you remotely arm.

- ☑ ***QuietChirp***— Whenever you desire, you may choose to lower the decibel volume of the arm and disarm chirps to a level that is clearly audible but less obtrusive than the full-volume chirps. All it takes is a few flicks of a switch.

- ☑ ***User-Selectable AutoArming***— Automatically arms itself “*passively*” if you forget and has all these additional features:
 - ***AutoArming Enable/Disable*** — You may disable or re-enable the AutoArming feature with just a few flicks of a switch.
 - ***AutoArm & Lock***— You may set the system to automatically lock the doors every time the system AutoArms.
 - ***Visual Indication***— Two indicator light flashes signal that the 30-second countdown to AutoArming has started.
 - ***Instant AutoArm Bypass*** — Just a quick turn of the ignition switch will bypass AutoArming for one cycle — perfect when fueling the vehicle. AutoArming is automatically restored the next time you park.

- ☑ ***Patented Smart Prior Intrusion Attempt Alert*** — When you return to your vehicle and remotely disarm, a special chirp and indicator light flash sequence will audibly and visually alert you if an intrusion attempt was foiled whilst you were away. Your Concept 50x will even identify the specific trigger or sensor that detected the intrusion attempt.

- ☑ ***Remote Controlled Courtesy Lighting*** — For your personal safety and convenience, when you remotely disarm your Concept 50x, the interior lights turn on and stay on until you start the engine or 30 seconds, whichever occurs first.

Standard Features of the Concept 50x (cont.)

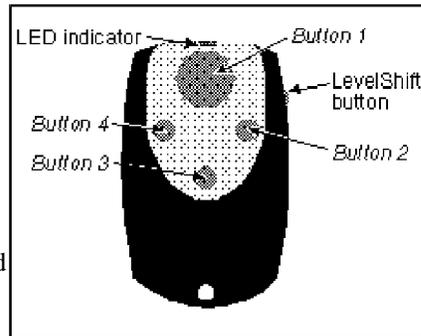
- ☑ ***Built-In Indicator Light Flasher*** — On-board relay and circuitry will visually confirm door lock and system status.
- ☑ ***Patented Smart AutoTesting***— Automatically tests all system triggers and sensors every time you remotely arm and warns you if you accidentally arm your Concept 50x system with the bonnet or boot open. If there is a genuine trigger or sensor malfunction, the system will specifically identify the problem, thereby eliminating time-consuming and costly trouble-shooting.
- ☑ ***Patented Malfunction AutoBypass with Automatic Monitoring*** — In the unlikely event of a trigger or sensor malfunction, Concept 50x automatically bypasses the malfunction and arms all other points to continue relentless protection of your vehicle. If you simply left the bonnet, boot or a door open when you armed, just close it and the system will again monitor that trigger point.
- ☑ ***Multiple-Event TotalRecall***— Concept 50x's memory stores the identity of the last eight trigger and sensor activations. This provides an invaluable diagnostic means, since, whenever you wish, the system will visually identify the activated triggers and sensors in reverse chronological order.
- ☑ ***Patented Remote Control Code Learning with MultiRemote Recognition*** — Just a few flicks of a switch lets you match to the system up to 4 different 12-channel Clifford ACG remote controls. Just as easily, a lost or stolen remote control can be deleted.
- ☑ ***Multiple-Car Control*** — You may use the same remote to control Concept 50x systems on up to six of your other vehicles.
- ☑ ***High-Luminescence LED Status Indicator***— Adds visual deterrence and identifies system status.
- ☑ ***Patented SmartPowerUp II*** — When power to the system is disconnected, the system's nonvolatile memory always remembers the security system's last state (armed or disarmed) and returns to that state when power is restored. So if a thief disconnects the power and then restores it in an attempt to start the car, the system will instantly re-arm.

Your 4-button/12-channel remote controls

The 4-button/12-channel remote controls are ultra-sophisticated miniature radio transmitters powered by a tiny 12-volt battery. A weak remote control battery will reduce range (see page 18 for battery replacement instructions). Electrical interference and even sunspots can interrupt the signal from your remote control to the system. If this happens, repeatedly press the remote control button (this is more effective than holding the button). The 4-button/12-channel remote control is the key to your system. It has Clifford's Anti-CodeGrabbing (ACG) technology for the ultimate protection against "code-grabbing" devices (see page 8). You will use your remote to arm and disarm the system, lock and unlock the doors, engage and disengage the AutoImmobilisation circuits, enable/exit valet mode and command options such as a remote boot release, power window operation and even remote engine starting.

How to use your keychain remote control

Your remote control can individually command up to 12 different system functions and options. It's like having a TV with 12 channels. You change channels (functions) with your keychain remote control. But instead of putting 12 buttons on the remote, we made it easy: First, the button you use the most — button 1 to arm, disarm, lock and unlock — is larger than the others. Buttons 2, 3 and 4 are the smaller buttons to the right, below and left of button 1. The *LevelShift*



button on the side of the remote control allows you to select channels 5–12:

- **To transmit either channel 1, 2, 3 or 4:** Just press either button 1, 2, 3 or 4. For instance, to transmit channel 3, press button 3. whilst you transmit, the LED indicator will blink once every second: this indicates **level 1**.
- **To transmit either channel 5, 6, 7 or 8:** Press the LevelShift button once. This shifts buttons 1–4 to level 2 (channels 5–8). Then press the desired button *within the next 7 seconds*. For instance, to transmit channel 5, press the LevelShift button once, then press button 1. whilst you transmit, you'll notice that the LED indicator blinks twice, pauses, blinks twice, etc.: this indicates **level 2**.
- **To transmit channel 9, 10, 11 or 12:** Press the LevelShift button twice. This shifts buttons 1–4 to level 3 (channels 9–12). Then press the corresponding button within the next 7 seconds. For instance, to transmit channel 10, press the LevelShift button twice, then press button 2. whilst you transmit, you'll notice that the LED blinks three times, pauses, blinks three times, etc.: this indicates **level 3**.

NOTE: One second after you stop transmitting level 2 or level 3 (channels 5–12), the remote control automatically returns to level 1 (channels 1–4).

What each button/channel does

Your Concept 50x remote controls come preprogrammed so that certain channels command certain functions. The following chart indicates what each remote control channel number does, and how to transmit each channel number.

Factory settings of the 12 remote control channels				
Transmitting channel number:	Causes the system to:	Press the LevelShift button?	How many times?	Press button number
1	arm or disarm and lock or unlock the doors	no	—	1
2	optionally turn on a timed device (if the system is <i>armed</i>) AND optionally pop the boot (if the system is <i>disarmed</i>)	no	—	2
3	<i>silently</i> arm or disarm	no	—	3
4	activate an optional accessory	no	—	4
5	arm or disarm a Concept 50x on your second vehicle	yes	once	1
6	Command a Concept 50x on your second vehicle to optionally turn on a timed device (if the system is <i>armed</i>) AND optionally unlatch the boot (if the system is <i>disarmed</i>)	yes	once	2
7	activate an optional accessory controlled by a Concept 50x on your second vehicle	yes	once	3
8	activate another optional accessory controlled by a Concept 50x on your second vehicle	yes	once	4
9	remotely enable/exit valet mode	yes	twice	1
10	remotely turn off one or both sensor zones	yes	twice	2
11	activate an optional accessory controlled by a Concept 50x on your third vehicle	yes	twice	3
12	activate another optional accessory controlled by a Concept 50x on your third vehicle	yes	twice	4

TO ARM THE SYSTEM. Press button 1 (channel 1) once. You will hear *two chirps* and the indicator lights will flash twice. The dashboard LED will flash repeatedly and the car doors will automatically lock.

TO DISARM THE SYSTEM. Press button 1 (channel 1) again. **One chirp** and one indicator light flash confirms disarming. In addition, the doors will automatically unlock and the interior lights will turn on and stay on for 30 seconds or until you start the engine, whichever occurs first.

TO SILENTLY ARM OR DISARM THE SYSTEM. Press button 3 (channel 3). Your Concept 50x system will arm or disarm with all the indications noted above *except* for the chirp acknowledgments.

TO REMOTELY TURN ON A TIMED ACCESSORY.	Button 2 (channel 2) controls an electronic interlock that lets you separately command two functions with the same channel: <i>one when the system is armed, another when disarmed</i> . Pressing button 2 whilst the alarm is armed will activate the system's timed output for any duration you wish between one second and two minutes (the factory setting is 30 seconds; see <i>User-selectable features</i> on pages 16-20).
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TO REMOTELY OPEN THE BOOT.	Button 2 (channel 2) can control another function when the system is disarmed , such as an optional remote boot release. Pressing button 2 whilst the alarm is disarmed will remotely open the boot.
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TO ACTIVATE OTHER OPTIONS REGARDLESS OF ALARM STATE.	Button 4 (channel 4) and channels 5–9 and 10–12 (see <i>How to use your keychain remote control</i> on page 6) can activate accessories such as the IntelliStart remote engine starter, remote power window control, ACG Garage Door Opener Interface, Concept 50x systems and accessories on your other vehicles, etc.
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WHAT ABOUT CHANNEL 9?.	Channel 9 is used to remotely enable or exit valet mode. See page 11 for more information.
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Anti-CodeGrabbing (ACG) with Random Code Encryption

Protects you and your automobile from the most effective and onerous car stealing device ever used by car thieves — a code-grabber. Code-grabbers literally record, from hundreds of metres away, the code sent by your car alarm remote control. Then the thief simply plays back the code when you're gone, instantly disarming the alarm and unlocking the doors. It's like giving the thief your car keys. But not if you have the Concept 50x, since it utilises complex digital signal processing and unbreachable encryption to randomly change the digital code every time you use the remote control. Your remote control will **never** transmit the same code twice, and the control unit will **never** accept the same code twice. Thus the code recorded and played back by the thief's code-grabber will never be accepted by your Concept 50x.

Smart prior intrusion attempt alert

If you hear three chirps when you remotely disarm instead of the usual one chirp, it means that a trigger or sensor was activated in your absence. When you enter the vehicle and turn on the ignition (or start the engine), the LED will blink 1–6 times, pause, then repeat the blink cycle 4 more times. Count the number of blinks in one cycle and refer to the chart on page 14 to identify the trigger or sensor that was activated whilst you were away.

How to interpret the chirps and indicator light flashes

When you use the remote, the system responds with chirps and indicator light flashes:

Chirps and flashes	Meaning
1	Your system is disarmed
2	Your system is armed
2 and then 4	Armed but there is a door open or the sensor is malfunctioning (see <i>Smart AutoTesting</i> on page 14)
3	Disarmed but there was an intrusion attempt whilst you were away (see <i>Smart prior intrusion attempt</i> on page 8)
4	Armed but the bonnet or boot is ajar (see <i>Smart AutoTesting</i> on page 14)

How to interpret the LED status indicator

The LED on your car's dashboard or console will inform you of the system status:

LED Condition	Meaning
Off	System is disarmed and in normal operating mode
On	Valet or programming mode.
Flashing	The AutoImmobiliser is engaged and/or the system is armed and protecting your vehicle
Pause between flashes	Either a malfunction (see page 14) or an intrusion was attempted (see page 8)

AutoArming

If you forget to remotely arm, the system will automatically arm itself 30 seconds after you park the vehicle, exit, and close all the doors. For your convenience, if you re-open any door(s) within the 30-second countdown, AutoArming will restart from the beginning once all doors are closed. Concept 50x has these additional

AutoArming features:

- **AutoArming enable/disable:** If you prefer, you may deactivate or reactivate the AutoArming feature. See *User-selectable features* on pages 16-20.
- **Visual acknowledgment:** Five seconds after you exit the vehicle and close all the doors, the indicator lights will flash twice to confirm that the AutoArming countdown is progressing. Then, 25 seconds later, the system will AutoArm.
- **AutoArm & Lock:** To ensure you can't accidentally lock your keys inside the car, the system is factory-set *not* to lock the doors upon AutoArming. To change this setting, see *User-selectable features* on pages 16-20.
- **Instant AutoArming bypass:** Prevents AutoArming when fuelling and other times when you wish to temporarily bypass AutoArming. To activate Instant AutoArming Bypass, rapidly turn the ignition switch to "ON" then "OFF." You will hear a single siren chirp to confirm that the system will not AutoArm. The system reverts to its normal operating mode when you next start the engine.

UltraSecure Coded Valet Mode

Your secret valet code

NOTE: If you temporarily lose the use of your remote controls, you can disarm the system by enabling valet mode.

All car alarms have a valet mode that turns off the security features. This mode is also used to turn off the alarm if it is not responding to the remote. However, thieves can disable other alarms in seconds by hotwiring the ignition and flicking the alarm's easy-to-find "hidden" valet switch. In contrast, your system has safeguards to ensure a thief cannot enable the valet mode as a way of "turning off" your system. How? To enable valet mode, the driver must enter a secret valet code on the PlainView switch. **Your factory preset code is noted on the inside front cover of this manual.** You may, whenever you wish, change the code to one of your own choosing. In valet mode, the system's AutoArming feature (see page 9) and all the security features are turned off. At various times, you will need to switch the system off, such as when washing your car.

Your factory-set valet code is noted on the inside front cover of this manual. As such, you should NOT keep this manual in your vehicle, since it could be discovered by a thief.

Definitions

- **Digit:** A digit is defined as any number from 0 to 9, inclusive.
- **Valet code:** Your valet code is the factory preset 4-digit number noted on the inside front cover of this manual, or one that you have chosen and programmed.
- **PlainView switch:** A rocker switch mounted on the dashboard or console. The switch has three positions: **1.) Latched 2.) Centre 3.) Spring-loaded momentary.** When you press the latched side, the switch remains in its pressed position. When you press the momentary side, the switch bounces back to the centre position.
- **Entering a digit:** To enter a digit, you tap (press and release) on the momentary side of the PlainView switch the number of times corresponding to the numeral of the digit to be entered, followed by pressing to the latched side, then returning the switch to its centre position.
- **Entering a code:** To enter your 4-digit code, just repeat the above for each digit of your code. If the digit is a zero, you will simply move the switch to its center position, then to the latched side as noted in the following example:

EXAMPLE: To enter a code of 1203, you would move the switch thusly: **Momentary, latched, momentary, momentary, latched, centre, latched, momentary, momentary, momentary, latched, center.**

NOTE: You may NOT select a code that begins with a zero. The first digit of your code must be 1-9.

To enable valet mode

1. Turn the ignition switch to its “ON” position or start the engine.
2. Enter your valet code on the PlainView switch, then return the switch to its centre position.
3. You now have 5 seconds to press the latched position to enter valet mode. The system’s LED will glow continually for ongoing visual confirmation of valet mode.

To exit valet mode

The system will automatically exit valet mode the next time that the ignition switch is turned to the “ON” position (e.g., when the engine is started).

Be sure to return the PlainView switch to its centre (neutral) position. Otherwise, the system will automatically invoke the TotalRecall feature (see page 14).

Setting your own secret valet code

If you wish to set your own valet code, you may choose any 4-digit code, except one that begins with a zero (e.g., 3210 is fine, but 0123 will not be accepted). You can also change your valet code whenever you want. Simply write down the 4-digit code you wish to use, then refer to the example below and the *User-selectable features* section on pages 16-20.

Example

Let’s say you want to set a valet code of 2301. To do so, you would do the following:

1. From the *Table of user-selectable features* on pages 19 and 20, you would note that the “set a new secret valet code” feature is in column 3, row 6.
2. Enter program mode by turning on the ignition, entering your current valet code, then pressing the PlainView switch to its momentary side for 3 seconds until you hear a chirp.
3. Select column 3 by moving the switch between latched and centre 3 times, i.e.: latched, centre, latched, centre, latched, centre. After a brief pause, you will hear 3 chirps to confirm that you have selected feature column 3.
4. Select row 6 by pressing and releasing the momentary side of the switch 6 times. To help you count, you will hear a chirp each time you press the momentary side. Then **immediately** flip the switch to the latched position.
5. Immediately enter your new code. To enter 2301 as your new code, you would press the switch in this manner: momentary, momentary, latched, (you’ll hear 2 chirps to confirm the first digit), momentary, momentary, momentary, latched, (3 chirps to confirm the second digit), centre, latched (zero chirps), momentary, latched (1 chirp), centre.
6. Wait 3 seconds until you hear 2 chirps, indicating the new code has been accepted.
7. Turn off the ignition to exit program mode (you’ll hear a 3-chirp confirmation).
8. **VERY IMPORTANT: You must now test your new secret valet code:** Turn on the ignition, enter your new code, then flip the switch to its latched position. The LED will illuminate. If it does not, the new code you programmed and the one you just entered do not match. ***In such a case, the system will revert to the previous code.***

Remote controlled valet mode entry and exit

You can even remotely enable or exit valet mode by transmitting channel 9 (LevelShift twice, then button 1). In addition to the above indications, two indicator light flashes confirm remote enabling of valet mode, a single flash confirms exiting. The next time that the ignition switch is turned to the “ON” position, valet mode is automatically exited.

Keyless entry in valet mode

Even if valet mode is enabled, you can still remotely control the convenience features. For instance, press button 1 (channel 1) as if you were disarming: the doors will unlock (confirmed by one indicator light flash) and the interior lights will turn on. Press button 1 again and the doors lock (confirmed by two flashes). You can also use the other channels to activate options such as a remote boot release or remote engine starting.

Sensor adjustment

The two zones of your Concept 50x's Proximity Sensor provides dual-level protection of your vehicle. If someone is lurking near your car, perhaps bringing their hands and face to the window to see what is inside, the outer zone of the sensor will pick up this nearby movement and trigger your Concept 50x to issue its warning tone. But if a thief actually leans into the passenger compartment, the sensor's interior zone will be triggered and the system will instantly blast the full alarm sound. The Clifford Electronics Proximity Sensor is a radar-type sensor that uses a more sophisticated, more accurate and more reliable technology than that of ultrasonic-type movement sensors. As such, the Dual-Zone Proximity Sensor of your Concept 50x is impervious to normal environmental conditions such as wind and temperature variations that cause ultrasonic sensors to false alarm.

Your Authorised Clifford Dealer will have adjusted each of the two sensor zones at the time of installation. If you find that the sensitivity setting of one or both appears to be a bit off the mark, any local Authorised Clifford Dealer will be happy to make any necessary readjustments without charge.

Remote controlled override of one or both sensor zones

Transmitting channel 10 (two presses of the side LevelShift button, then a press of button 2) within 10 seconds of arming the system will override the exterior warning zone of the Dual-Zone Proximity Sensor. When you do so, you will see 4 indicator light flashes to confirm the zone override. This is useful when parking in an area with heavy pedestrian traffic. Transmitting channel 10 again within the 10 second period will override *both* zones of the sensor for those times when you must leave a passenger or pet in the vehicle. The sensor zones are automatically restored the next time you arm the system.

AutoLock and AutoUnLock

For your safety and that of your passengers, the doors automatically lock the instant you turn on the ignition (see *User-selectable features* on pages 16-20). When you turn the ignition off, AutoUnLock automatically unlocks the doors. To suit your preferences, you may turn off *either or both* the AutoLock and/or AutoUnLock features.

Built-In Two-Point AutoImmobiliser

Thirty seconds after you turn off the ignition, the system's built-in two-point AutoImmobiliser electronically disengages your vehicle's starter motor and electronic fuel pump to ensure against theft of your vehicle. The LED Status Indicator will repeatedly flash to indicate that AutoImmobilisation has been activated. Even if a thief were to cut all the wires or even find the Concept 50x control unit and disconnect it, he would still be unable to start the engine.

Please be aware that, unlike AutoArming described above, AutoImmobilisation occurs regardless of whether you open or close any doors. What's more, disabling the AutoArming feature has no effect on AutoImmobilisation.

When you remotely disarm your Concept 50x, the AutoImmobilisation circuits automatically disengage. You then have 30 seconds to start the engine (or turn the ignition switch to its "ON" position). If more than 30 seconds pass, the immobiliser will automatically reactivate. This will be visually indicated by the LED repeatedly flashing.

To disarm the AutoImmobiliser, use the remote control to arm and then disarm the system.

Train/Drawbridge Feature

Your Concept 50x has a new feature to make restarting the vehicle easier and safer after stopping for a passing train or a raised drawbridge. You may need to shut down your vehicle's engine when waiting. But, after 30 seconds, the immobilisation electronics of your Concept 50x will engage, which will prevent engine starting. To clear this immobilisation and to start the engine after this occurs, simply do the following:

1. Turn your ignition switch to the "ON" position.
2. Press button 1 on your remote control. This will both disengage the immobilisation and will automatically lock your vehicle's doors to ensure driving safety.
3. You may now start the engine.

False Alarm Prevention and FACT — False Alarm Control and Test

False alarms are usually caused by a car alarm's sensor that either cannot detect the difference between normal environmental conditions and a genuine theft attempt or, in the case of your Concept 50x, has its sensor sensitivity set too high (this can be readjusted by any Authorised Clifford Dealer). Clifford's exclusive FACT feature ensures you'll never experience **repeated** false alarms. If the siren goes off, DO NOT remotely disarm; allow it to run for the full 30-second siren duration. Before sounding the siren a second time, the system automatically checks for another activated trigger or sensor to verify that a genuine intrusion is in progress. Should the siren sound again, you will know for sure that someone is tampering with your vehicle. (To disable FACT, see *User-selectable features* on pages 16-20.)

Smart AutoTesting

Each time you remotely arm the system, it tests all triggers and sensors. If the **bonnet or boot** is open, the system will **immediately** alert you with **4 chirps** and **4 indicator light flashes** instead of the usual 2 and 2. If a **door** is ajar, you will receive the usual 2 chirps and 2 flashes, then, **5 seconds later**, **4 chirps** and **4 flashes**. (The door ajar warning will not work on vehicles with factory-delayed or dimming courtesy lights). If a **sensor** is malfunctioning, you will receive the usual 2 chirps and 2 flashes, then, **10 seconds later**, there will be **4 chirps** and **4 flashes**.

- **Specific malfunction identification:** If you get the 4-chirp/4-flash signal upon arming, perform the following to identify the malfunctioning trigger or sensor:
 1. Remotely disarm, then turn on the ignition. The LED status indicator inside your vehicle will be flashing, pause, then repeat.
 2. Count the number of blinks in one cycle between pauses (for your convenience, the blink cycle repeats a total of 5 times) and refer to the chart below:

Number of LED blinks between pauses	Trigger/sensor indication
1 blink	Proximity Sensor
3 blinks	Glass Tampering Sensor
4 blinks*	Door trigger*
5 blinks	Boot trigger
6 blinks	Bonnet trigger
7 blinks	Three incorrect consecutive valet code entries were made

** If your vehicle has interior light delay or dimming, the system cannot provide this indication.*

Automatic malfunction bypass

The system will automatically bypass any faulty point and arm all other triggers and sensors to provide the utmost possible protection until you can have the system serviced by your local Authorised Clifford Dealer. If you armed with the bonnet, boot or a door open, just close the open point and the system will again monitor that point.

Multiple-event TotalRecall

The system's memory records the identity of the last 8 activated or malfunctioning triggers and sensors, which allows your installer to track down any malfunction. To identify the triggers and sensors held in memory, use the following procedure:

1. With the ignition OFF, flick the PlainView switch to its latched side.
2. Press button 1 to "arm" the system, then again to "disarm."
3. The LED will blink 1–6 times to indicate the most recently activated point, pause, blink 1-5 times to indicated the next most recently activated point, and so on.
4. Write down the number of blinks between pauses and refer to the chart above.

SmartPowerUp II

If power is removed, SmartPowerUp II ensures the system will automatically restore itself to its previous state when power is restored. So if a thief disconnects the power whilst the system is armed and then restores it in an attempt to start the car, the system will re-arm and instantly sound the siren whilst immobilising the vehicle.

Smart Self-Powered Siren with Unbreachable Digital ComLink

This siren has its own built-in back-up battery, so even if a thief cuts all the wires, the siren will *continue* to wail. Furthermore, this unique Clifford-designed and manufactured siren has all these important additional enhancements:

Unbreachable Digital ComLink: Clifford's ingenious Digital ComLink is a serial communications link that ensures that — if the system fuse is pulled, or if power to the system is interrupted, or if any siren wire is tampered with whilst the system is armed — the siren will instantly activate for five minutes. However, if the system is disarmed and power is interrupted for *authorised* servicing, the siren will remain silent. This eliminates the need for a special separate shutoff key common to other battery-backed sirens. This ingenious Clifford feature guards against any possibility of a thief tampering with the system.

Smart-charging: Other battery-backed sirens continually draw charging current from your vehicle's battery. In time, this can drain the car's battery. Clifford's Smart Self-Powered Siren only draws charging current whilst the vehicle's ignition is on, i.e., whilst you're driving. This prevents battery drain.

Long-term chirp silencing: Whenever you wish, you may silence your Concept 50x's arm/disarm chirps until you wish to restore them. The indicator light flashes will continue to provide visual confirmation of remote controlled arming and disarming. See the *User-selectable features* section on pages 16-20.

Remote controlled chirp muting: This is especially valuable when parking late at night in a quiet residential area. To arm or disarm silently, press button 3 on your remote control instead of the usual button 1.

QuietChirps: You can control the volume of the arm and disarm chirps. As shipped from the factory, your system issues full-volume chirp acknowledgments. If you prefer, you may reduce the chirp volume to a level that is clearly audible, yet less obtrusive. See the *User-selectable features* section on pages 16-20.

Automatic low battery warning: If at any time the siren's back-up battery voltage is low or it fails to hold its charge, the normal arm and disarm chirps will be automatically muted to alert you of the problem. Once the back-up battery is charged, the chirps will automatically be restored.

Noise Abatement Circuitry: Automatically limits siren sounding to 2.5 minutes even if a door is left open in the wake of an intrusion attempt.

User-selectable features

Your Concept 50x allows you to set many of its features to your own personal preferences via a few flicks of the PlainView switch. Once you've changed a few settings, you'll find that programming Concept 50x is so easy that you can even do it whilst driving! The system comes with all of its features preprogrammed as noted by the bold type in the *Table of user-selectable features* on pages 19-20. To change any of the settings, use the steps noted below. To restore the feature to its factory setting, just repeat the procedure:

How to change a user-selectable feature:

Briefly, here's how it will work:

- Pick a feature from the Table on pages 19-20, noting its column and row numbers.
- First you'll need to get into program mode by entering your secret valet code (see page 10). After you have entered your code, press and hold the momentary side of the PlainView switch until you hear a chirp. You're now in the "Feature Select" position.
- Next you'll press the latched side of the switch a number of times identical to the column number. Lastly, you will press the momentary side of the switch a number of times corresponding to the row number.

That's all there is to it! After you enter the feature's column and row numbers, you'll hear either **one chirp** to indicate that the feature has been **turned off**, or **two chirps** if **turned on**. It's easy once you've done it. Try the examples on page 17.

Step-by-step programming instructions

1. Refer to the *Table of user-selectable features* and make note of the column (across) number and the row (down) number of the feature(s) you wish to program.
2. Turn on the ignition, or start the engine (skip this step if the engine is running).
3. Enter your valet code (see page 10), then press the PlainView switch to its momentary side for 3 seconds until you hear a siren chirp (the system LED will also turn on to indicate program mode.) You are now in the "*Feature Select*" position.
4. Select the feature column: Toggle the switch in and out of the latched position the same number of times as the column number of the selected feature (NOTE: each latched-to-centre motion is counted as one). Pause. You will hear the same number of chirps as the column number you have selected, audibly confirming your selection.
5. Select the feature row: Press and release the momentary side the same number of times as the feature's row number. You'll will hear a chirp each time you press.
6. If there is a **NOTE** for the selected feature, perform the actions noted.
7. Pause. You will hear either one or two chirps: Two chirps = ON, one chirp = OFF.
8. You may select another feature, or you may exit program mode:
 - a. To select another feature in that column, repeat step 5 within the next 10 seconds (after 10 seconds, 3 chirps mean you are now back in the "*Feature Select*" position).
 - b. To select a different feature column, go to step 4.
 - c. To exit program mode, turn the ignition off (you'll hear 3 chirps and the LED will turn off). If driving, just wait 60 seconds for the system to automatically exit program mode.

EXAMPLE 1: Turn on AutoArm & Lock

When the system AutoArms (see page 9), it does not normally lock the doors to ensure that you cannot accidentally lock the keys inside the vehicle. To enable this feature, you'll note that "AutoArm & Lock" is in column 3, row 2 of the table on pages 19-20. The "**off**" in bold type indicates the factory setting. The following example will turn on AutoArm & Lock.

1. To enter program mode, turn on the ignition, enter your valet code (as noted on page 10), then **hold** the switch in its **momentary** position until you hear a chirp.
2. Select column 3 by pressing the **latched** side and then returning the switch to its **centre** position **three times**, then **wait** for the three chirps to confirm column 3. To select row 2, press **momentary two times** (you'll hear a chirp each time you press the momentary side).
3. After a brief pause, you'll hear **two chirps** to confirm that AutoArm & Lock is now **on**.
4. Turn the **ignition off**. You'll hear 3 chirps, confirming automatic exit from the program mode, and you're done!

If you make an error, just turn off the ignition and start again. To turn AutoArm & Lock back off, just repeat steps 1-4. In step 3, you'll hear **one** chirps to confirm that the feature has been turned back **off**. Remember, one chirp = off, two chirps = on.

NOTE: You have 10 seconds to enter the row number after selecting the column. If you wait too long, the system jumps back to the "**Feature Select**" position (this is indicated with 3 chirps). If you wait another 60 seconds, the system will exit program mode (this allows you to make programming changes even whilst you're driving). In Example 2 below, you'll learn how easy it is to change the settings of several different features in just one session, without having to repeatedly turn the ignition on and off:

EXAMPLE 2: Turn off AutoLock and AutoUnLock, then turn on QuietChirps:

This time, we will change the settings of three different features in just one programming session: We will turn off both the AutoLock and AutoUnLock features (see page 12), as well as turn on the QuietChirps feature (see page 15). Here's all you have to do:

1. Enter program mode as previously noted (ignition on, enter your valet code, then press the momentary side until you here a chirp).
2. Since AutoLock is in column 2, row 1 of the Table, you will have to enter the latched side twice and the momentary side once. Therefore, move the switch to latched, centre, latched, centre. Wait for the two chirps to confirm the selection of column 2. Within 10 seconds, press and release the momentary side of the switch once (you will hear a chirp when you press it). After a brief pause, you'll hear 1 chirp to confirm that AutoLock is now off.
3. Since AutoUnLock is in column 2, row 2 and is in the same column as you just entered for AutoLock, there is no need in this case to again select column 2. Therefore, you can go right away to the row selection (momentary side of the switch). Now, within 10 seconds, press the **momentary side two times** to jump to **row 2**. After a brief pause, you'll hear 1 chirp to confirm that AutoUnLock is now off.
4. Note that the QuietChirps feature is in the same **column 2, row 5**. Simply press the momentary side 5 times.. After a brief pause, you'll hear two chirps to confirm that the QuietChirps feature is now on.
5. To exit the program mode, turn the **ignition off**. You'll hear 3 chirps to confirm program mode exit.

continued . . .

Notice that you did not have to reselect column 2. If you don't touch the switch, the system *stays* in the column for 10 seconds to allow you to select any other feature(s) in the same column without having to re-enter the column number. Of course, you may also toggle the latched side to select a new column. If you wait more than 10 seconds, the system automatically jumps back to the "Feature Select" position. This is the "standby" position: ready for entry of a new programming selection. If no action is taken for the next 60 seconds, the system automatically exits program mode, perfect if you program whilst driving or if you forget to turn off the ignition.

Changing the remote control battery

Your remote control is powered by a small 12-volt battery. As the battery begins to go flat, range will decrease. Replacement batteries are available at all Authorised Clifford Dealers and at most other electronics and automotive security shops. To replace the battery (any Clifford Dealer will be happy to do this for you):

1. Remove the retaining screw and gently pry apart the two halves of the case with your fingernails near the bottom of the remote (where the keyring is).
2. Note the orientation of the old battery, then replace it with the new battery (+ and – symbols are also engraved inside the bottom half of the case).
3. Snap the case back together by first aligning the top (where the LED window is), then retightening (but not over-tightening) the retaining screw.

Adding new remote controls

For other drivers in your family, or if you wish to control Concept 50x systems on your other cars with the same remote control, you can buy additional remote controls from any Clifford Dealer (call our UK office on ring on 0800-929949 or 0181-646-8440 for the nearest dealers) and program them into the system yourself. Each Concept 50x will respond to as many as four 12-channel ACG remote controls. To add a new remote control to the system, use the procedures noted in the *User-selectable features* section on pages 16-20.

How to erase the codes of lost or stolen remote controls

If one of your remote controls is ever lost or stolen, you may erase it from the system memory to make sure the missing remote control can never be used to disarm your system. To do so, use the "Erase all channels" feature (column 1, row 5) on the *Table of user-selectable features* on pages 19-20). This will clear all remote controls from the system memory. Then simply program each remaining and/or replacement remote control as noted in the *Adding new remote controls* section above.

<p><i>Making changes to the existing security system will invalidate the certificate of installation.</i></p>
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<p><i>Should any fault with the security system occur, please contact your installing Clifford agent as soon as is convenient.</i></p>

Table of user-selectable features: 1 chirp = OFF, two chirps = ON.

<i>Feature Select</i>	<i>Column 1 1st latched</i>	<i>Column 2 2nd latched</i>	<i>Column 3 3rd latched</i>
<i>Row 1 1st momentary</i>	Add new remote to channel 1 NOTE 1	AutoLock on/off	AutoArming: on/off
<i>Row 2 2nd momentary</i>	Add new remote to channel 2 NOTE 2	AutoUnLock on/off	AutoArm & Lock: on/off
<i>Row 3 3rd momentary</i>	Add new remote to channel 3 NOTE 3	FACT: on/off	NOT USED
<i>Row 4 4th momentary</i>	Add new remote to channel 4 NOTE 4	AutoActivate timed channel 4 accessory upon remote arming: on/off <i>this feature is for installers only</i>	★ Set accessory timer duration: 1sec - 2min (30sec) NOTE 6
<i>Row 5 5th momentary</i>	Erase all channels NOTE 5	QuietChirps: on/off	NOT USED
<i>Row 6 6th momentary</i>	NOT USED	Long-term chirp silencing: on/off	Set a new secret valet code NOTE 7

★ **WARNING:** If you have remote window and sunroof closure, **DO NOT CHANGE THIS SETTING:** it requires installer-only adjustment. Changing the duration may cause damage. **DO NOT** alter the installer-only setting in the grey cell. There is also an installer-only column 5, so if you accidentally select an installer-only feature, turn off the ignition and start again.

- **NOTE 1:** Transmit channel 1 (or other channel of your choosing) of the new remote control. You will hear one chirp to confirm programming of channel 1.
- **NOTE 2:** Transmit channel 2 (or other channel of your choosing) of the new remote control. You will hear two chirps to confirm programming of channel 2.
- **NOTE 3:** Transmit channel 3 (or other channel of your choosing) of the new remote control. You will hear three chirps to confirm programming of channel 3.
- **NOTE 4:** Transmit channel 4 (or other channel of your choosing) of the new remote control. You will hear four chirps to confirm programming of channel 4.
- **NOTE 5:** When you hear one chirp, all remotes will have been erased from the system memory. You must now add the new and/or existing remote controls to the system (i.e., program channels 1–4 of each remote that will be used with your Concept 50x).
- **NOTE 6:** The accessory timer starts as soon as you select this feature. When the duration you wish has been reached, press button 1 on the remote control. You will hear two chirps to confirm the new accessory timer duration.
- **NOTE 7: Immediately flip the switch to its latched position,** then:
 - a. Enter the new code that you wish to use. The system will sound the same number of chirps as the digit you choose when you move the switch to the latched side (e.g., if the first digit is 4, you’ll hear four chirps when you press the latched side).
 - b. Make sure to return the switch to its centre position when complete.
 - c. **Wait 3 seconds until you hear 2 chirps,** indicating the new code has been accepted.
 - d. Turn the ignition off. You’ll hear 3 chirps to confirm program mode exit and the LED will turn off.
 - e. **VERY IMPORTANT: You must immediately test your new secret valet code:** Turn the ignition on, enter your new code, then flip the switch to its latched position. The LED will illuminate. If it does not, the new code you programmed and the one you just entered do not match. **The system has reverted to the previous code.**